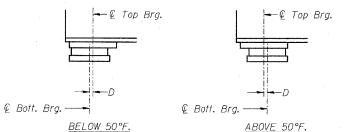


## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



(Move bott. brg. away from fixed brg.) (Move bott. brg. toward fixed brg.)

# SETTING ANCHOR BOLTS AT EXP. BRG.

 $D=l_8$ " per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

"NOT IN CONTRACT"

#### TOTAL SHEET NO. SHEET NO. - S-3 23 S-66" SHEETS 23 346 LAKE

\* 125X-HB-1F

CONTRACT # 60E33

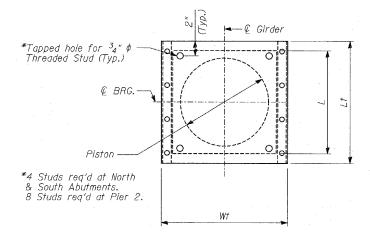
## NOTES:

- 1. All structural steel for the top and bottom bearing plates shall conform to AASHTO M 270 Grade 50.
- 2. Cost of top and bottom bearing plates,  $l_8$ " Elastomeric Neoprene, shim plates and threaded studs with washer shall be included with "Furnishing HLMR Bearings, Guided Expansion", of the load rating specified.
- 3. Anchor bolts not included in this Contract.
- 4. Two  ${}^{l}_{8}$ " adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

## FLOATING BEARING, GUIDED EXPANSION TABLE

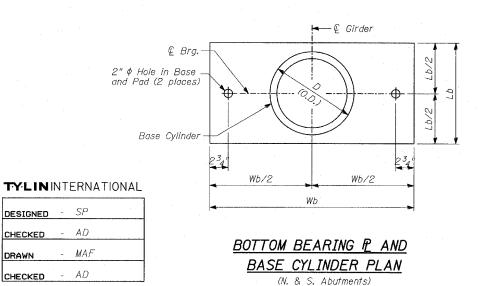
				, 001			<i>.</i> , <i>.</i>				=			
LOCATION		VERT. LOAD		TOT. REQ'D		P PL	ATE	(in)	BOTTO	M PLA	TE (In)	BRG. A	SSEME	BLY (in)
200711707	REQ'D	CAPACITY	VERT. LOAD	MOVEMENT (in)	Wt	L†	Tt	G	Wb	Lb	Τb	D	L	Th
NORTH ABUTMENT	10	250K	197K	2.50	17.0	16.5	1.75	6.0	27.0	16.0	1.75	11.875	12.0	8.625
PIER 2	10	850K	820K	3.75	28.5	28.5	3.25	11.0	38.5	26.0	2.50	21.875	22.0	13.75
SOUTH ABUTMENT	10	250K	197K	6.25	17.0	20.5	1.50	6.0	27.0	16.0	1.75	11.875	12.0	8.375

# GUIDED EXPANSION POT BEARING



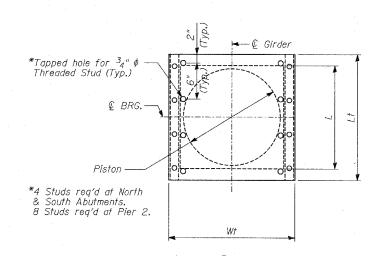
## TOP BEARING P - PISTON PLAN

(N. & S. Abutments)



DRAWN

CHECKED



# TOP BEARING P - PISTON PLAN

(Pier 2) 2" \( \phi \) Hole in Base and Pad (4 places) **←** 🖟 Girder  $\Phi$ Base Cylinder -Wb/2 Wb/2

BOTTOM BEARING P AND BASE CYLINDER PLAN (Pier 2)

### BILL OF MATERIAL

Furnishing HLMR Bearings, Guided Expansion, 250 kips Each	TOTAL	UNIT		ITEM					
Funciables III MD Considera Collaide Consideration Consideration	20	Each	250 kips	d Expansion,	Guided	Bearings,	HLMR	Furnishing	
Furnishing HLMR Bearings, Guided Expansion, 850 kips   Each	10	Each	850 kips	d Expansion,	Guided	Bearings,	HLMR	Furnishing	

#### HIGH LOAD MULTI-ROTATION BEARINGS

FAP 346 (U.S. ROUTE 41 - SKOKIE HIGHWAY) OVER ILLINOIS ROUTE 132 SECTION 125X-HB-(1&2)R-1 LAKE COUNTY S.N. Ø49-Ø2Ø9